

National Institute  
of Standards and Technology



National Voluntary  
Laboratory Accreditation Program

ISO/IEC 17025:1999  
ISO 9002:1994

## Scope of Accreditation



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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200605-0

#### MAHR FEDERAL INC.

1139 Eddy Street

Providence, RI 02940

Mr. John Peipock

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NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

### DIMENSIONAL

NVLAP Code: 20/D03

Gage Blocks

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
0.50 in to 190 in	2.0 $\mu$ in	
0.200 in to 0.950 in	2.2 $\mu$ in	
1 in to 2 in	2.3 $\mu$ in	
4 in	3.2 $\mu$ in	
3 in	4.8 $\mu$ in	
1 mm to 4.5 mm	50 nm	
5 mm to 23.5 mm	56 nm	
25 mm to 50 mm	58 nm	
100 mm	81 nm	
75 mm	122 nm	

March 31, 2004

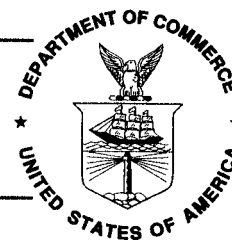
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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200605-0

#### MAHR FEDERAL INC.

**NVLAP Code:** 20/D05

Length & Diameter - Indicators

<i>Range in inches</i>	<i>Best Uncertainty <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Up to 0.100	21	M&TE
0.100 to 0.250	82	M&TE
0.250 to 2	82	M&TE

**NVLAP Code:** 20/D05

Length - Air Amplifiers

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.0003 to 0.003	12	M&TE Dimensionair <sup>®</sup>

**NVLAP Code:** 20/D05

Length

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.0003 to 0.003	13	M&TE All Mahr Federal Inc. AMR Kits

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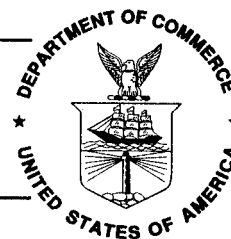
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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200605-0

#### MAHR FEDERAL INC.

**NVLAP Code:** 20/D05

Length

**Range**

**Best Uncertainty ( $\pm$ )<sup>note 1</sup>**

**Remarks**

< 400 Arc Seconds

0.40 Arc Seconds

M&TE  
Electronic Levels System

0 in to 1 in

58  $\mu$ in

M&TE  
400 B3 & B4 Calibrators

**NVLAP Code:** 20/D05

Length & Diameter - Outside Micrometers

**Range in inches**

**Best Uncertainty  $\mu$ in ( $\pm$ )<sup>note 1</sup>**

**Remarks**

0 to 1

58

M&TE

1 to 2

58

M&TE

2 to 3

58

M&TE

3 to 4

58

M&TE

4 to 5

58

M&TE

5 to 6

58

M&TE

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200605-0

MAHR FEDERAL INC.

**NVLAP Code:** 20/D09

Roundness

**Range in inches**

**Best Uncertainty in  $\mu\text{in}$  ( $\pm$ )<sup>note 1</sup>**

**Remarks**

.124 to 2 diameter with a roundness  $< 100 \mu\text{in}$

1

**NVLAP Code:** 20/D11

Spherical Diameter; Plug

**Range in inches**

**Best Uncertainty in  $\mu\text{in}$  ( $\pm$ )<sup>note 1</sup>**

**Remarks**

Up to 1

6

1 to 2

7

2 to 4

10

4 to 10

( $10 \mu\text{in} + 1\text{L}$ )

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### CALIBRATION LABORATORIES

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#### MAHR FEDERAL INC.

**NVLAP Code:** 20/D11

Ring Gages

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.125 to 5.0	7	Mahr 828 CIM
Up to 1	6	
1 to 2	7	
2 to 4	10	
4 to 14	(10 $\mu\text{in}$ + 1L)	

**NVLAP Code:** 20/D11

Air Rings

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
< 2	18	M&TE
2 to 4	25	M&TE

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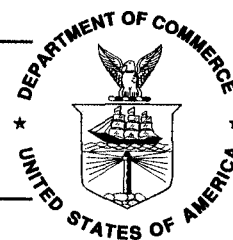
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**NVLAP Code:** 20/D11

Air Plugs

<i>Range in in</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
< 1	12	M&TE
$\geq 1$ to 2	26	M&TE
> 2 to 3	28	M&TE
> 3 to 4	32	M&TE
> 4 to 5	33	M&TE

**NVLAP Code:** 20/D12

Surface Texture

<i>Range</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
20 to 300 $\mu\text{inRa}$	2	

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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